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(74) Agents: **JOLY, Jean-Jacques** et al.; Cabinet Beau de
Loménie, 158 Rue de l'Université, F-75340 Paris cedex 07
(FR).

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(71) Applicant (for all designated States except US):
MESSIER-BUGATTI [FR/FR]; Zone Aéronautique
Louis Bréguet, F-78140 VELIZY VILLACOUBLAY
(FR).

(72) Inventor; and

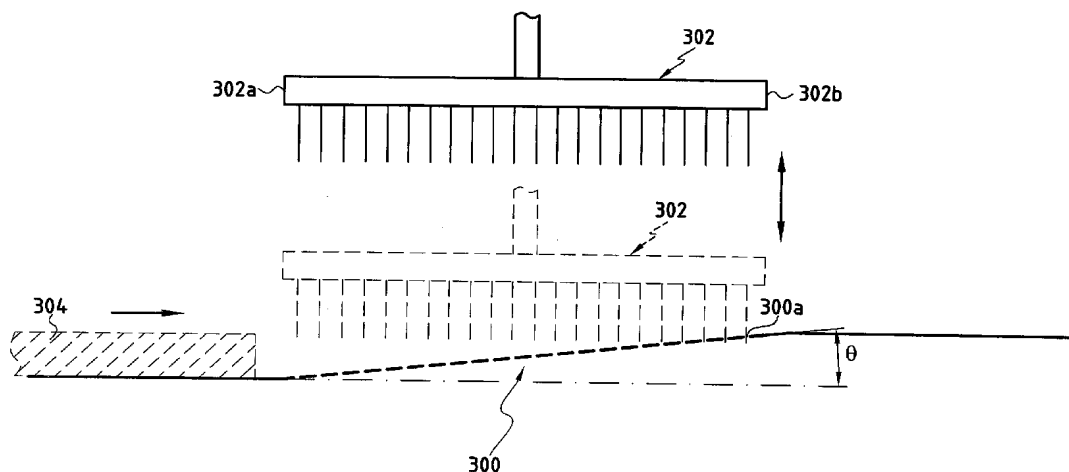
(75) Inventor/Applicant (for US only): **SHORT, Andrew**
[US/US]; 612 Rosemont, PARK HILLS, Kentucky 41011
(US).

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[Continued on next page]

(54) Title: METHOD OF PRODUCING A FIBROUS PREFORM



(57) Abstract: Method for producing a fibrous preform, especially by needling a fiber material (e.g., discontinuous pitch-based or PAN-based fiber). A needle-penetrable mold plate (10) having at least one mold cavity (12) therein for receiving the fiber material is provided. The use of a needle-penetrable mold plate allows the mold plate having the fiber material therein to be passed freely through a linear needling device, such as a linear needling loom, without having to take rigorous care to limit a needling path to the discontinuous fiber material, as in the conventional art. The mold plate is moved relative to the needling device one or more times until a desired level of material density (sometimes measured by fiber content percentage) is attained. Preferably, the mold plate is additionally moved and/or allowed to move along a direction generally transverse to the direction along with the mold plate moves relative to the needling device, so as to avoid the conventional problem of needle "tracking" and thereby create a better needling effect.

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